What is claimed is:

1. A radio reception apparatus comprising:

a reception section that receives a signal on a per
5 processing unit basis, said processing unit including
a known signal pattern;

an adjusting section that adjusts a filter for filtering the received signal using the known signal pattern in the processing unit; and

- a canceling section that cancels an interference component in the processing unit using the adjusted filter.
- 2. The radio reception apparatus according to claim15 1, wherein the adjusting section includes:
  - a modulation scheme determining section that determines a modulation scheme on a per said processing unit basis using the known signal pattern; and
- a tap coefficient control section that controls tap coefficients to set to the filter according to the determined modulation scheme.
  - The radio reception apparatus according to claim
     wherein the adjusting section includes:
- 25 a frequency conversion section that performs a frequency analysis of the received signal; and

an interference level detecting section that

detects adjacent channel interference from a result of the frequency analysis and determines tap coefficients to set to the filter according to the detection result.

5 4. The radio reception apparatus according to claim1, wherein the adjusting section includes:

an error measuring section that measures an error of the received signal that occurs due to a transmission path characteristic on a per said processing unit basis using the known signal pattern; and

a tap coefficient control section that controls tap coefficients to set to the filter based on the measured error and a reception level of the received signal.

15 5. The radio reception apparatus according to claim 1, wherein the canceling section includes a plurality of filters having different filter characteristics; and wherein the adjusting section includes:

a modulation scheme determining section that 20 determines the modulation scheme on a per said processing unit basis using the known signal pattern; and

a filter selection section that selects one of the plurality of filters according to the determined modulation scheme.

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6. The radio reception apparatus according to claim 1, wherein the canceling section cancels adjacent channel

interference or inter-symbol interference.

- 7. The radio reception apparatus according to claim 1, wherein the adjusting section adjusts a filter characteristic of the filter in such a way that a combined characteristic of said filter with a baseband filter at a communicating partner station has a Nyquist characteristic.
- 10 8. A communication terminal apparatus having the radio reception apparatus recited in claim 1.
  - 9. A base station apparatus having the radio reception apparatus recited in claim 1.

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10. A reception filtering method comprising the steps of:

receiving a signal on a per processing unit basis, said processing unit including a known signal pattern;

adjusting a filter for filtering the received signal using the known signal pattern in the processing unit; and

canceling an interference component in the processing unit using the adjusted filter.